

Subject: MSD Colloquium, Thurs, 2/01, 11am, 212, A-157
From: Suzanne Kokosz <kokosz@anl.gov>
Date: Thu, 18 Jan 2007 09:20:40 -0600
To: Materials Science Division <msd@anl.gov>

SPEAKER: Mark Bailey
Materials Science Division
Argonne National Laboratory

TITLE: Molten lithium: a promising flux for
new materials

DATE: Thursday, February 1, 2007

TIME: 11:00 a.m.

PLACE: Building 212, Room A157

HOST: Suzanne Te Velthuis

Refreshments will be available at 10:45 a.m.

Abstract:

Lithium has so far been rather overlooked as a flux for new materials, despite possessing many favorable physical characteristics. Motivated by our belief that lithium is ideally suited to the discovery of exotic materials such as MgB₂ and Li₂Pt₃B, we initiated a program aimed at exploiting lithium's potential. In this colloquium I will describe our initial work in this area, introducing both the relevant chemistry of lithium and also our newly discovered materials such as Li₂Rh₃B₂, a close relative of the 3 K superconductor, LaRh₃B₂.